



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Eduard JORSWIECK et al.

Serial No: 10/535,209

Group Art Unit: Unassigned

Confirmation No. 9399

Filed: May 17, 2005

Examiner: Unassigned

For: MIMO SIGNAL PROCESSING METHOD INVOLVING A RANK-ADAPTIVE MATCHING OF  
THE TRANSMISSION RATE**REQUEST FOR CORRECTED NOTICE OF  
RECORDATION OF ASSIGNMENT DOCUMENT****BOX ASSIGNMENTS**

Mail Stop Assignment Recordation

Services Division

Director of U.S. Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

It is requested that the name of the third Assignor on the Notice of Recordation of Assignment Document be corrected. The name of the third Assignor should be correctly reflected as **JUNGNICKEL, DR. VOLKER**.

Since the errors are PTO errors, no fee is enclosed. For the convenience of the Patent and Trademark Office, attached is a photocopy of the Notice of Recordation on which the errors have been noted in red.

It is requested that a corrected Notice of Recordation of Assignment Document be issued in this application.

Respectfully submitted,

STAAS &amp; HALSEY LLP

Date:

Apr. 23 2006

By:

Mark J. Henry

Mark J. Henry

Registration No. 36,162

1201 New York Ave, N.W., 7th Floor  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

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**ASSIGNMENT**

For good and valuable consideration, I/we, the undersigned

**Thomas Haustein**  
residing at:  
**Brehmestr. 59**  
**13187 Berlin**  
**GERMANY**

**Eduard Jorswieck**  
residing at:  
**Wollgrasweg 9**  
**15566 Schöneiche**

**Dr. Volker Jungnickel**  
residing at:  
**Stechlinstr. 3**  
**10318 Berlin**  
**GERMANY**

**Dr. Clemens von Helmolt**  
residing at:  
**Baseler Strasse 32**  
**12205 Berlin**  
**GERMANY**

residing at:

residing at:

residing at:

residing at:

hereby sell, assign, and transfer to  
**Siemens Aktiengesellschaft**

a German corporation organized and existing under the laws of the Federal Republic of Germany, having its principal place of business in München, GERMANY herein the "Assignee", its successors, assigns and legal representatives the entire and exclusive right, title and interest in and for the United States, in all and to any improvements in the

(Title:) **MIMO-Signalverarbeitungsverfahren mit einer rangadaptiven Anpassung der Datenübertragungsrate**

disclosed in the PCT International application for Letters Patent designating the United States, said application being identified in our records as

Applicants File No. **2004P20577WOUS**  
and filed as PCT-application **PCT/DE03/03713**

and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements;

IDNR: 4248 / V: 04-1.00 / B: Val

hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 11.6.2005Thomas Haustein  
Thomas HausteinWitnesses: [Signature]  
(type name)Witnesses: [Signature]  
(type name)

Date: \_\_\_\_\_

Eduard JorswieckWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)

Date: \_\_\_\_\_

Dr. Volker JungnickelWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)

hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned:

Date: \_\_\_\_\_

\_\_\_\_\_  
Thomas HausteinWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)Date: 15 Mai 2005\_\_\_\_\_  
Eduard JorswieckWitnesses: Pamela Jorswieck  
(type name) (PAMELA JORSWIECK)Witnesses: Max Lindau  
(type name) (MAX LINDAU)

Date: \_\_\_\_\_

\_\_\_\_\_  
Dr. Volker JungnickelWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)

hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: \_\_\_\_\_

\_\_\_\_\_  
Thomas HausteinWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)

Date: \_\_\_\_\_

\_\_\_\_\_  
Eduard JorswieckWitnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)Date: 3.6.05Dr. Volker Jungnickel  
Dr. Volker JungnickelWitnesses: Andreas Focke  
(type name)Witnesses: Holger Gabeler  
(type name)

3

Date: 17.5.05Clemens v. Helmolt  
Dr. Clemens von HelmoltWitnesses: Volker Jungnickel  
(type name) Volker JungnickelWitnesses: Holger Gäßler  
(type name) Holger Gäßler

Date: \_\_\_\_\_

Witnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
(type name)

Date: \_\_\_\_\_

Witnesses: \_\_\_\_\_  
(type name)Witnesses: \_\_\_\_\_  
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(type name)Witnesses: \_\_\_\_\_  
(type name)



1454.1615/MJH

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 23, 2006

PTAS



\*103139866A\*

STASS & HALSEY LLP  
ATTENTION: MARK J. HENRY  
1201 NEW YORK AVE., SUITE 700  
WASHINGTON, D.C. 20005

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313..

RECORDATION DATE: 12/14/2005

REEL/FRAME: 017356/0969

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 1454.1615

ASSIGNOR:

HAUSTEIN, THOMAS

DOC DATE: 06/11/2005

ASSIGNOR:

JORSWIECK, EDUARD

DOC DATE: 05/15/2005

ASSIGNOR:

[JUNGICKEL] DR. VOLKER

DOC DATE: 06/03/2005

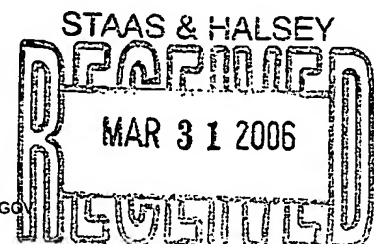
ASSIGNOR:

VON HELMOIT, DR. CLEMENS

DOC DATE: 05/17/2005

ASSIGNEE:

SIEMENS AKTIENGESELLSCHAFT  
WITTELSBACHERPLATZ 2  
80333 MUNICH, GERMANY



017356/0969 PAGE 2

SERIAL NUMBER: 10535209

FILING DATE: 12/14/2005

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ISSUE DATE:

TITLE: MIMO SIGNAL PROCESSING METHOD INVOLVING A RANK-ADAPTIVE MATCHING OF  
THE TRANSMISSION RATE

MARCUS KIRK, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION



12-14-05

FORM PTO-1595  
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To the Director of the U.S. Patent and Trademark Office

RE: **HAUSTEIN**

DEC 14 2005

12-19-2005

103139866

U.S. DEPARTMENT OF COMMERCE

1. Name of conveying party(ies):  
Thomas HAUSTEIN, Eduard JORSWIECK, Dr. Volker JUNGnickel and Dr. Clemens von HELMOIT
2. Name and Address of receiving party(ies):  
  
SIEMENS AKTIENGESELLSCHAFT  
Wittelsbacherplatz 2  
80333 Munich  
GERMANY
3. Nature of conveyance:  
☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_  
Execution Date(s): June 11, 1005, May 15, 2005, June 3, 2005 and May 17, 2005
4. Application number(s) or patent number(s):  
☐ This document is being filed together with a new application.  
  
OR  
☒ This document is being filed after filing of the application:  
(a) Patent Application No(s). 10/535,209, filed May 17, 2005; or  
(b) Patent No(s). , issued .
5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP Our Docket: 1454.1615  
Attention: Mark J. Henry  
1201 New York Ave., N.W., Suite 700  
Washington, D.C. 20005
6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)  
☒ Enclosed  
☐ Authorized to be charged to deposit account.
8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
(Attach duplicate copy of this page if paying by deposit account)

Mark J. Henry, Reg. No. 36,162  
Name of Person Signing

M. J. Henry  
Signature

Dec 14 2005  
Date

Total number of pages including cover sheet: 6

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